



1623

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ellen M. Heath et al. Art Unit : 1623
Serial No. : 09/974,798 Examiner : Devesh Khare, Ph.D.
Filed : October 12, 2001
Title : COMPOSITIONS AND METHODS FOR USING A SOLID SUPPORT TO
PURIFY RNA

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (2 pages);
3. Copies of Cited References (43 references); and
4. A Return Postcard.

Please date stamp and return the enclosed postcard. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 31 August 2004

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Lisa M. Becker
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INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

Submitted herewith is an English translation of the Hofmeister reference.

This statement is being filed before the receipt of a first Office action on the merits.

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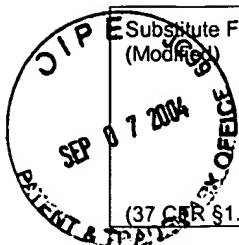
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 Substitute Form PTO-1449
(Modified)

 U.S. Department of Commerce
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 Attorney's Docket No.
17094-002001

 Application No.
09/974,798

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

 Applicant
Ellen M. Heath et al.

 Filing Date
October 12, 2001

 Group Art Unit
1623

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	41,332	01/19/1864	Washburn			
	AB	4,483,920	11/20/84	Gillespie et al.			
	AC	4,843,155	06/27/89	Chomczynski			
	AD	5,010,183	04/23/91	Macfarlane			
	AE	5,057,426	10/15/91	Henco et al.			
	AF	5,155,018	10/13/92	Gillespie et al.			
	AG	5,234,809	08/10/93	Boom et al.			
	AH	5,346,994	09/13/94	Chomczynski			
	AI	5,405,951	04/11/95	Woodard			
	AJ	5,599,667	02/04/97	Arnold, Jr. et al.			
	AK	5,728,822	03/17/98	Macfarlane			
	AL	5,939,259	08/17/99	Harvey et al.			
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	AN	5,958,677	09/28/99	Lee et al.			
	AO	5,972,613	10/26/99	Somack et al.			
	AP	5,973,137	10/26/99	Heath			
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	AS	6,204,375	03/20/01	Lader			
	AT	6,218,531	04/17/01	Ekenberg			
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	AX	2002/0001812	01/03/02	Smith et al.			

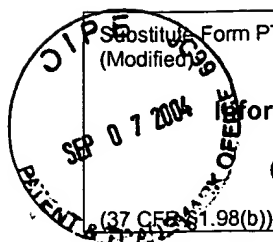
Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No

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Date Considered

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							Yes	No
	AY	WO 92/07863	05/14/92	PCT				
	AZ	WO 95/01359	01/12/95	PCT				
	AAA	WO 95/02049	01/19/95	PCT				
	ABB	WO 95/34569	12/21/95	PCT				
	ACC	WO 96/18731	06/20/96	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	ADD	Technical Bulletin #160: The Use of LiCl Precipitation for RNA Purification, 2003, Ambion Website @ http://www.ambion.com/techlib/tb/tb_160.html
	AEE	Ahmad, "Free Energy Changes in Ribonuclease A Denaturation," <i>J. Biol. Chem.</i> , 1983, 258(18):11143-11146
	AFF	Ahmad, "Free Energy Changes in Denaturation of Ribonuclease A by Mixed Denaturants," <i>J. Biol. Chem.</i> , 1984, 259(7):4183-4186
	AGG	Bugos et al., "RNA Isolation from Plant Tissues Recalcitrant to Extraction in Guanidine," <i>BioTechniques</i> , 1995, 19:734-737
	AHH	Chomczynski and Sacchi, "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction," <i>Anal. Biochem.</i> , 1987, 162:156-159
	AII	Collins, "Sticky ions in biological systems," <i>Proc. Natl. Acad. Sci. USA</i> , 1995, 92:5553-5557
	AJJ	Cox and Smulian, "A single-step procedure for the isolation of individual mRNA species from crude lysates of <i>Physarum polycephalum</i> ," <i>FEBS Letters</i> , 1983, 155:73-80
	AKK	Dahle and Macfarlane, "Isolation of RNA from Cells in Culture Using Catrimox-14 TM Cationic Surfactant," <i>BioTechniques</i> , 1993, 15:1102-1105
	ALL	Hofmeister, "On the theory of the effects of salts," <i>Arch. Exp. Pathol. Pharmacol.</i> , 1888, 247-260
	AMM	Kazakov, "Nucleic Acid Binding and Catalysis by Metal Ions," <i>Bioorganic Chemistry: Nucleic Acids</i> , 1996, Chapter 9, pp. 244-477
	ANN	Krawetz et al., "Isolation and fractionation of total nucleic acids from tissues and cells," <i>J. Biochem. Biophys. Meth.</i> , 1986, 12:29-36
	AOO	Sambrook, "Concentrating Nucleic Acids: Precipitation with Ethanol or Isopropanol," <i>Molecular Cloning: A Laboratory Manual</i> , 1989, Vol. 3, 2 nd edition, Cold Spring Harbor, pp. E10 and E15
	APP	Witchel et al., "Milligram Quantity Preparation of RNA from a Marine Invertebrate with a High Fluid Content," <i>BioTechniques</i> , 1996, 21:1024-1026
	AQQ	Wiggins, "High and Low Density Intracellular Water," <i>Cellular and Molecular Biology</i> , 2001, 47:735-744

Examiner Signature

Date Considered

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